



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:	Do, et al.	)	Group Art Unit:	1754
Serial No:	10/686,938	)	Examiner:	Unknown
Filed:	October 16, 2003	)	Our Account No:	04-1403
Confirmation No:	4580	)	Customer No:	22827
Title:	Method For Reducing Odor Using Metal-Modified Silica Particles	)		

Commissioner for Patents  
U.S. Patent and Trademark Office  
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Sir:

The following is an Information Disclosure Statement for the captioned patent application, pursuant to 37 CFR Sections 1.56, 1.97, and 1.98.

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- a. ☒ A list of materials for consideration per Rule 98(a)(1): 5 page(s)
- b. ☒ A legible copy of each patent, publication, or other item listed per Rule 98(1)(2), unless not required per Rule 98 and/or as indicated on the attached list(s):  
129 item(s)
- c. ☐ For each non-English language item listed, pursuant to Rule 98(a)(3), a concise explanation of the relevance thereof as it is presently understood by the individual designated in Rule 56(c) most knowledgeable about the content of such items: \_\_\_\_\_
- ☐ Such explanation is provided in the Search Report from a corresponding application enclosed herewith along with any enclosed translation into English.

2. ☒ This Information Disclosure Statement is being filed [CHECK ONE]:

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- b. ☐ AFTER the time periods of section 2.a above, but BEFORE a Final Action, Notice of Allowance OR an action that otherwise closes prosecution, WHEREFORE PER Rule 97(c) submitted herewith is [CHECK ONE]:
- i. ☐ Certification per Rule 97(e); OR
- ii. ☐ Filing Fee per Rule 17(p) .....\$180.00
- c. ☐ AFTER a Final Action OR Notice of Allowance, but BEFORE payment of the issue fee, WHEREFORE per Rule 97(d) submitted herewith is:
- i. Certification per Rule 97(e); AND
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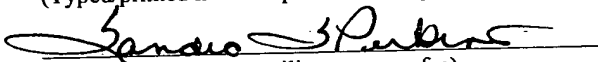
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By: Christina L. Mangelsen, Patent Agent

Reg. No: 50,244

Signature: 

Date: April 20, 2004



(Rev. 5/92) Information Disclosure Statement List By Applicant(s) Under 37 CFR Section 1.98(a) (1) (Use several sheets if necessary)	Attorney Docket Number: KCX-694 (19340)	Serial Number: 10/686,938
	Applicant: Do, et al.	
	Filing Date: October 16, 2003 Confirmation No: 4580	Group Art Unit: 1754

NOTE:

If no indication is made in the column marked "COPY NOTE," the required legible copy of the corresponding item is submitted herewith; otherwise, a copy is not required and/or not submitted, for the following reason(s) [corresponding reason number is listed in "COPY NOTE" column]

- (1) This item is cumulative, per Rule 98(c)
- (2) A copy of this item was previously cited by or submitted to the U.S. Patent and Trademark Office in:  
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- (3) Both reasons (1) and (2) apply
- (4) No legible complete copy is possessed, in custody of controlled, or readily available
- (5) Per the U.S. Patent and Trademark Office's waiver of Rule 98(a)(2)(i), the item is a U.S. patent or patent application publication, and the present application was filed after June 30, 2003.

application was filed after June 30, 2003.

U.S. PATENT DOCUMENTS												ISSUE DATE	COPY NOTE
EXAMINER INITIALS		PATENTEE NAME	PATENT NUMBER										
		Davis	R	E	3	0	7	9	7		11/17/1981	5	
		Davis	R	E	3	0	8	0	3		11/24/1981	5	
		Müller, et al.	2	0	1	5	8	6	4		10/01/1935	5	
		Howard	2	5	9	3	1	4	6		04/15/1952	5	
		Crowley	3	2	6	6	9	7	3		08/16/1966	5	
		Satas	3	3	8	1	6	8	8		05/07/1968	5	
		Brown, et al.	3	9	1	9	4	3	7		11/11/1975	5	
		Brock, et al.	4	0	4	1	2	0	3		08/09/1977	5	
		Walk, et al.	4	1	7	2	7	8	1		10/30/1979	5	
		Farha, Jr., et al.	4	3	1	3	8	2	0		02/02/1982	5	
		Appel, et al.	4	3	7	5	4	4	8		03/01/1983	5	
		Tratnyek	4	4	0	7	9	6	0		10/04/1983	5	
		Weisman, et al.	4	4	6	9	7	4	6		09/04/1984	5	
		Hou	4	4	8	8	9	6	9		12/18/1984	5	
		Kroyer, et al.	4	4	9	4	2	7	8		01/22/1985	5	
		Raeburn	4	4	9	4	6	2	9		01/22/1985	5	
		Ehlenz, et al.	4	5	1	7	3	0	8		05/14/1985	5	
		Mays	4	5	2	2	2	0	3		06/11/1985	5	
		Hagiwara, et al.	4	5	2	5	4	1	0		06/25/1985	5	
		Laursen, et al.	4	6	4	0	8	1	0		02/03/1987	5	
		Johnson	4	6	4	3	8	0	1		02/17/1987	5	
		Kidd	4	7	2	5	4	1	5		02/16/1988	5	
		Hill	4	7	3	4	3	2	4		03/29/1988	5	
		Hagiwara	4	7	7	5	5	8	5		10/04/1988	5	
		Lau	4	8	1	8	4	6	4		04/04/1989	5	
		Morell, et al.	4	8	2	3	4	0	4		04/25/1989	5	
		Aoyama, et al.	4	9	7	8	6	1	5		12/18/1990	5	
		Kurihara, et al.	5	1	0	8	7	3	9		04/28/1992	5	
		Nakane, et al.	5	1	2	2	4	1	8		06/16/1992	5	
		Potts, et al.	5	1	4	5	7	2	7		09/08/1992	5	
		Collier, IV, et al.	5	1	6	9	7	0	6		12/08/1992	5	
		Perkins, et al.	5	1	7	8	9	3	1		01/12/1993	5	
		Uesaka, et al.	5	1	8	3	6	5	6		02/02/1993	5	
		Timmons, et al.	5	1	8	8	8	8	5		02/23/1993	5	
		Kaminsky, et al.	5	2	0	4	4	2	9		04/20/1993	5	

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	Ogale	5	3	0	0	3	6	5	04/05/1994	5
	Karapasha	5	4	0	7	4	4	2	04/18/1995	5
	Murai, et al.	5	4	2	7	8	4	4	06/27/1995	5
	Erderly, et al.	5	4	5	1	4	5	0	09/19/1995	5
	Obijeski, et al.	5	4	7	2	7	7	5	12/05/1995	5
	Maruo, et al.	5	4	8	0	6	3	6	01/02/1996	5
	Yim	5	4	8	6	3	5	6	01/23/1996	5
	Soerensen	5	5	2	7	1	7	1	06/18/1996	5
	Etherton, et al.	5	5	3	9	1	2	4	07/23/1996	5
	Parks	5	5	4	0	9	1	6	07/30/1996	5
	Krishnamurti, et al.	5	5	5	4	7	7	5	09/10/1996	5
	Emmons, et al.	5	6	6	3	2	2	4	09/02/1997	5
	McCormack	5	6	9	5	8	6	8	12/09/1997	5
	Brunner, et al.	5	7	3	3	2	7	2	03/31/1998	5
	Cook, et al.	5	8	1	7	3	0	0	10/06/1998	5
	English, et al.	5	8	3	7	3	5	2	11/17/1998	5
	Peterson, et al.	5	8	6	1	1	4	4	01/19/1999	5
	Lucas, et al.	5	8	7	4	0	6	7	02/23/1999	5
	Dodd, et al.	5	8	8	2	6	3	8	03/16/1999	5
	Peterson, et al.	5	8	8	5	5	9	9	03/23/1999	5
	Hanamoto, et al.	5	9	4	8	3	9	8	09/07/1999	5
	Kim, et al.	5	9	4	8	4	8	3	09/07/1999	5
	Oshima	6	0	0	4	6	2	5	12/21/1999	5
	Haffner, et al.	6	0	4	5	9	0	0	04/04/2000	5
	Welchel, et al.	6	0	4	7	4	1	3	04/11/2000	5
	Gillberg-LaForce, et al.	6	0	6	0	4	1	0	05/09/2000	5
	Pressley, et al.	6	0	7	3	7	7	1	06/13/2000	5
	McCormack, et al.	6	0	7	5	1	7	9	06/13/2000	5
	McCormack, et al.	6	1	1	1	1	6	3	08/29/2000	5
	McLaughlin, et al.	6	1	9	3	8	4	4	02/27/2001	5
	McCormack, et al.	6	2	3	8	7	6	7	05/29/2001	5
	Denkewicz, Jr., et al.	6	2	5	4	8	9	4	07/03/2001	5
	Gancet, et al.	6	2	7	7	7	7	2	08/21/2001	5
	Cohen, et al.	6	2	9	4	2	2	2	09/25/2001	5
	Aoyagi, et al.	6	2	9	9	8	6	7	10/09/2001	5
	McCormack, et al.	6	3	0	9	7	3	6	10/30/2001	5
	Dodd, et al.	6	3	4	4	2	1	8	02/05/2002	5
	Glaug, et al.	6	3	6	9	2	9	0	04/09/2002	5
	Coakley	6	4	2	5	5	3	0	07/30/2002	5
	Bosch, et al.	6	4	2	8	8	1	4	08/06/2002	5
	Yano, et al.	6	4	6	0	9	8	9	10/08/2002	5
	Wu, et al.	6	4	6	7	8	9	7	10/22/2002	5
	Sakaki, et al.	6	4	7	5	6	0	1	11/05/2002	5
	Proverb, et al.	6	4	9	1	7	9	0	12/10/2002	5
	Tomioka, et al.	6	5	1	7	1	9	9	02/11/2003	5
	Kato, et al.	6	5	3	6	8	9	0	03/25/2003	5
	Westman, et al.	6	5	5	1	4	5	7	04/22/2003	5
	Dobler, et al.	6	5	7	5	3	8	3	06/10/2003	5
	Brehm, et al.	6	6	2	3	8	4	8	09/23/2003	5
	Falat, et al.	6	6	3	9	0	0	4	10/28/2003	5
	Cramer, et al.	6	6	4	5	5	6	9	11/11/2003	5

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U.S. PATENT APPLICATION PUBLICATIONS												
EXAMINER INITIALS	APPLICANT'S NAME	PUBLICATION NUMBER								PUBLICATION DATE	COPY NOTE	
	Sherman	0	0	0	5	1	4	5		01/17/2002	5	
	Soane, et al.	0	0	1	3	3	6	9		01/16/2003	5	
	Guarracino, et al.	0	0	2	3	3	3	8		09/20/2001	5	
	Hall-Puzio, et al.	0	0	3	1	2	4	8		10/18/2001	5	
	Proverb, et al.	0	0	7	0	7	8	2		04/17/2003	5	
	Cha, et al.	0	0	8	2	2	3	7		05/01/2003	5	
	Hausmann, et al.	0	1	0	6	4	6	6		08/08/2002	5	
	Dugan	0	1	1	0	6	8	6		08/15/2002	5	
	Rohrbaugh, et al.	0	1	7	6	9	8	2		11/28/2002	5	

FOREIGN PATENT DOCUMENTS															
EXAMINER INITIALS		COUNTRY	DOCUMENT NUMBER							PUBLICATION DATE	TRANSLATION			COPY NOTE	
											YES	NO	N/A		
		WO	0	0	7	6	5	5	8	A1	12/21/2000			X	
		WO	0	2	0	6	2	8	8	1 A2	08/15/2002			X	
		WO	0	2	0	6	4	8	7	7 A2 & A3	08/22/2002			X	
		WO	0	2	0	8	3	2	9	7 A1	10/24/2002			X	
		WO	0	2	0	8	4	0	1	7 A1	10/24/2002			X	
		WO	0	2	0	9	5	1	1	2 A1	11/28/2002			X	
		WO	0	2	2	6	2	7	2	A1	04/04/2002			X	
		EP	0	2	3	2	1	4	1	A1	08/12/1987			X	
		WO	0	2	4	9	5	5	9	A2	06/27/2002		X		
		EP	0	2	5	1	7	8	3	B1	01/07/1988			X	
		WO	0	3	0	0	0	9	7	9 A2	01/03/2003			X	
		WO	0	3	0	2	5	0	6	7 A1	03/27/2002			X	
		WO	0	3	0	9	2	8	8	5 A1	11/13/2003			X	
		EP	0	3	4	8	9	7	8	A2	01/03/1990			X	
		EP	0	5	1	0	6	1	9	A1	10/28/1992			X	
		EP	1	0	5	3	7	8	8	B1	10/08/2003			X	
		EP	1	1	5	7	6	7	2	A1	11/28/2001			X	
		EP	1	2	9	8	0	7	1	A1	04/02/2003			X	

(Rev. 5/92) Information Disclosure Statement List By Applicant(s) Under 37 CFR Section 1.98(a) (1) (Use several sheets if necessary)	Attorney Docket Number: KCX-694 (19340)	Serial Number: 10/686,938
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	WO	8	9	0	2	6	9	8	A1	04/06/1989			X	
	WO	9	1	1	2	0	2	9	A1	08/22/1991			X	
	WO	9	1	1	2	0	3	0	A1	08/22/1991			X	
	WO	9	1	1	1	9	7	7	A1	08/22/1991			X	
	WO	9	6	1	9	3	4	6	A2 & A3	06/27/1996			X	
	WO	9	8	2	6	8	0	8	A2 & A3	06/25/1998			X	

\*"NO" means that no copy of an English language translation is within the possession, custody, or control of, or is readily available to any individual designated in Rule 56(c).

EXAMINER INITIALS	OTHER DOCUMENTS Specify author (if any), Title, Pertinent Pages, Date & Place of Publication	COPY NOTE
	Abstract of Japanese Patent No. 5106199	04/27/1993
	Abstract of Japanese Patent No. 9143872	06/03/1997
	Article – <i>Applicability of a SPME method for the Rapid Determination of VOCs</i> , Alexandre Béné, Jean-Luc Luisier, and Antoine Fornage, <i>Chimia</i> , Vol. 56, No. 6, 2002, pp. 289-291	
	Article – <i>Characterisation of novel modified active carbons and marine algal biomass for the selective adsorption of lead</i> , D.J. Malik, V. Strelko, Jr., M. Streat, and A.M. Puziy, <i>Water Research</i> , Vol. 36, 2002, pp. 1527-1538	
	Article – <i>Significance of Ammonia in the Genesis of Gastric Epithelial Lesions Induced by Helicobacter pylori: An in vitro Study with Different Bacterial Strains and Urea Concentrations</i> , P. Sommi, V. Ricci, R. Fiocca, M. Romano, K.J. Ivey, E. Cova, E. Solcia, and U. Ventura, <i>Digestion</i> , Vol. 57, 1996, pp. 299-304	
	Article – <i>Ammonia vapour in the mouth as a diagnostic marker for Helicobacter pylori infection: preliminary "proof of principle" pharmacological investigations</i> , C. D. R. Dunn, M. Black, D. C. Cowell, C. Penault, N. M. Ratcliffe, R. Spence, and C. Teare, <i>British Journal of Biomedical Science</i> , Vol. 58, 2001, pp. 66-76	

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	Article – <i>Purification and Characterization of Urease from Helicobacter pylori</i> , Bruce E. Dunn, Gail P. Campbell, Guillermo I. Perez-Perez, and Martin J. Blaser, The Journal of Biological Chemistry, Vol. 265, No. 16, June 5, 1990, pp. 9464-1990		
	Article – <i>Validation of <sup>13</sup>C-Urea Breath Test for the Diagnosis of Helicobacter Pylori Infection in the Singapore Population</i> , T. S. Chua, K. M. Fock, E. K. Teo, T. M. Ng, Singapore Medical Journal, Vol. 43, No. 8, 2002, pp. 408-411		
	Article – <i>Significance of ammonia produced by Helicobacter pylori</i> , Shigeji Ito, Yoshihiro Kohli, Takuji Kato, Yoshimichi Abe, and Takashi Ueda, European Journal of Gastroenterology & Hepatology, Vol. 6, No. 2, 1994, pp. 167-174		
	Article – <i>Spectrophotometric Assay of Thiols</i> , Peter C. Jocelyn, Methods in Enzymology, Vol. 142, 1987, pp. 44-67		
EXAMINER		DATE CONSIDERED	
Examiner: initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.			